***NICOLAE TESTEMIŢANU***

**PI STATE UNIVERSITY OF MEDICINE AND PHARMACY**

**FACULTY OF DENTISTRY**

**DEPARTMENT OF ORO-MAXILLOFACIAL SURGERY**

**AND ORAL IMPLANTOLOGY *ARSENIE GUȚAN***

Teaching guide

Subject: Anesthesia in stomatology and OMF surgery

Type of subject: Compulsory

Code of subject: S.03.O.030

Anesthesia in stomatology and OMF surgery

(practical work)

2nd year, 3rd semester

(2020-2021)

Topic Nr. 1

( II year, III quarter )

Theme: Student’s acquaintance with department staff. Peculiarities of OMF surgery. Organization of dento-alveolar and oro-maxillo-facial surgical cabinet (section).

Work place: Clinical locations of the department

Purpose: During the practical work students are acquainted with department staff, learn about departement demands and organization of OMF surgical service. Practical: attend and participate to patient’s receiving.

Work plan: 1. Discussion on the topic – 30 min.

2. Demonstration of the thematic patient – 30 min.

3. Work on the simulator – 35 min.

4. Generalization – 10 min.

Control questions:

1. Oro-maxillo-facial surgery as medical science. Objectives and tasks. The definition of the speciality, relationships with other stomatological specialities. The anatomic territory of OMF surgery (plans, limits, anatomic structures)
2. History of OMF surgery and of the department.
3. Types of surgical dental service (prophylactic, planned and urgent) and their content. General principles of surgical techniques.
4. Basic principles of surgical dental assistance organization in ambulatory (polyclinics) and hospital.
5. Requirements to the arrangement, microclimate and surgical cabinet (section) organization (walls, floor, ceiling, ventilation, windows and others).
6. Equipment and endowment of the surgical cabinet with installations, furniture and dental instruments. Sanitary and hygienic requirements to the dental furniture and equipment.
7. Requirements to the construction and location of the surgical cabinet (section) in the polyclinics and hospitals. Rules of personal hygiene, ethics and deontology. Appearance of the surgeon in medical institution.
8. Dental medical documentation in cabinet (section) of OMF surgery. (Patient dental record form (F143) in ambulatory surgical care and medical record in stationary). **(To write by one form)**

Bibliography

1. Lecture materials.
2. Larry J. Peterson „Contemporary Oral and Maxillofacial Surgery”, fourth edition, 2003, USA.
3. Stanley F. Malamed „ Handbook of local anesthesia”, fourth edition, 1997, USA.
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5. Paul Coulthard, Master Dentistry **“**Oral and Maxillofacial Surgery, Radiology, Pathology and Oral Medicine”, 2003, UK.
6. Karl R. Koerner “Manual of Minor Oral Surgery for the General Dentist”, 2006, US.
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8. G. Timoşca C. Burlibaşa Chirurgie buco-maxilo-facială Chişinău 1992 pag. 51-136
9. N.Gănuţă I.Canavea “Anestezia în stomatologie şi chirurgia orală şi maxilo-facială”, Bucureşti 1993.

Topic Nr. 2 ( II year, III quarter )

Theme: Surgical anatomy (topography) of the face and neck.

Work place: Clinical locations of the department

Purpose: During the practical work students learn anatomical peculiarities of the face, facial regions, anatomy of the superior jaw . Practical: attend and participate to patient’s receiving.

Work plan: 1. Discussion on the topic – 30 min.

2. Demonstration of the thematic patient – 30 min.

3. Work on the simulator – 35 min.

4. Generalization – 10 min.

Control questions:

1. Superficial and deep levels and regions of the face.
2. The bones that form the facial skeleton. Draw in the notebook
3. The mucles and fascia of the head.
4. Osteo-fascial and intermuscular spaces of the head.
5. Mimic muscles (the classification and their function). Draw in the notebook
6. The topography of the neck
7. The mucles and fascia of the neck (PNA and Șevkunenko). Draw in the notebook

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1. Lecture materials.
2. Larry J. Peterson „Contemporary Oral and Maxillofacial Surgery”, fourth edition, 2003, USA.
3. Stanley F. Malamed „ Handbook of local anesthesia”, fourth edition, 1997, USA.
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11. Т. Г. Робустова “Хирургическая стоматотогия”. Москва 1996 стр. 35-141.
12. А. А. Тимофев “Pуководство по челюстно лицевой и хирургической стоматологии” Том 1 Киев 1997 стр. 63-150.

Topic Nr. 3 ( II year, III quarter )

Theme: Surgical anatomy (topography) of the superior and inferior jaw.

Work place: Clinical locations of the department

Purpose: During the practical work students learn anatomy of inferior jaw,TMJ and their function.Practical: attend and participate to patient’s receiving.

Work plan: 1. Discussion on the topic – 30 min.

2. Demonstration of the thematic patient – 30 min.

3. Work on the simulator – 35 min.

4. Generalization – 10 min.

Control questions:

1. Anatomo-morphological features of the maxilla.
2. Teeth anatomy and their root relation to the cortical plates.
3. Blood supply of the maxilla (veins and arteries).Draw in the notebook.
4. Innervation of the superior jaw. Draw in the notebook.
5. Anatomy of the maxillary sinus. Functions.
6. Anatomo-morphological features of the mandible.
7. Teeth anatomy and their root relation to the cortical plates and mandibular canal.
8. Main anatomical elements of the TMJ. Draw in the notebook.
9. Basic functions of the TMJ.
10. Blood supply of the mandible (veins and arteries). Draw in the notebook.
11. Innervation of the inferior jaw. Draw in the notebook.

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1. Lecture materials.
2. Larry J. Peterson „Contemporary Oral and Maxillofacial Surgery”, fourth edition, 2003, USA.
3. Stanley F. Malamed „ Handbook of local anesthesia”, fourth edition, 1997, USA.
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11. Т. Г. Робустова “Хирургическая стоматотогия”. Москва 1996 стр. 35-141.
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Topic Nr. 4( II year, III quarter )

Theme: Clinical examination of the patients in OMF surgical cabinet (section).

Work place: Clinical locations of the department

Purpose: During the practical work students learn the examination of the patients with OMF diseases. Practical: attend and participate to patient’s receiving.

Work plan: 1. Discussion on the topic – 30 min.

2. Demonstration of the thematic patient – 30 min.

3. Work on the simulator – 35 min.

4. Generalization – 10 min.

Control questions:

1. The main goal of clinical examination.
2. Deontology and medical ethics during patients examination.
3. Stages of clinical examination of the patients with OMF diseases.
4. Establishment of patient’s identity. (pasport data).
5. Subjective examination. Anamnesis. Methods. Advantages and disadvantages.
6. Main complaints that bring patients with OMF diseases to the doctor.
7. Pain. Definition. Types, character. Main elements that characterize the pain.

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1. Lecture materials.
2. Larry J. Peterson „Contemporary Oral and Maxillofacial Surgery”, fourth edition, 2003, USA.
3. Stanley F. Malamed „ Handbook of local anesthesia”, fourth edition, 1997, USA.
4. Fragiskos D. Fragiskos „Oral surgery”, Springer-Verlag Berlin Heidelberg, 2007.
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6. Karl R. Koerner “Manual of Minor Oral Surgery for the General Dentist”, 2006, US.
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Topic Nr. 5( II year, III quarter )

Theme: Clinical examination of the patients in OMF surgical cabinet (section).

Work place: Clinical locations of the department

Purpose: During the practical work students learn the examination of the patients with OMF diseases. Practical: attend and participate to patient’s receiving.

Work plan: 1. Discussion on the topic – 30 min.

2. Demonstration of the thematic patient – 30 min.

3. Work on the simulator – 35 min.

4. Generalization – 10 min.

Control questions:

1. Main elements that characterize defects and deformations.
2. The history of actual disease (anamnes morbis). Characteristic.
3. The hystory of patients life (anamnes vitae). Characteristic.
4. Allergological hystory.
5. Extra-oral and intra-oral objective examination. Characteristic.
6. Examination of general state of the patient. Main goals. Correlation between general state and OMF diseases.

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1. Lecture materials.
2. Larry J. Peterson „Contemporary Oral and Maxillofacial Surgery”, fourth edition, 2003, USA.
3. Stanley F. Malamed „ Handbook of local anesthesia”, fourth edition, 1997, USA.
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7. C. Burlibaşa Chirurgie orală şi maxilofacială. Bucureşti 1999 pag. 51-162

Topic Nr. 6( II year, III quarter )

Theme: Paraclinical explorations used for the detection of OMF diseases.

Work place: Clinical locations of the department

Purpose: During the practical work students learn the indications and methods of paraclinical investigations used in dentistry.Practical: attend and participate to patient’s receiving.

Work plan: 1. Discussion on the topic – 30 min.

2. Demonstration of the thematic patient – 30 min.

3. Work on the simulator – 35 min.

4. Generalization – 10 min.

Control questions:

1. Loco-regional and general paraclinical explorations used in OMF surgery. Their goal and meaning in diagnosis specification.
2. Laboratory investigations. Characteristic. Indications and clinical significance.

* haemogram or blood count (erythrocytes, leukocytes, platelets, haemoglobin);
* bleeding and clotting time;
* clot retraction time, hematocrit;
* glucose;
* cholesterol;
* vitamin D;

1. Bacteriologic examination.Characteristic. Indications and clinical significance.
2. Morphologic investigation.Characteristic. Indications and clinical significance.
3. Hystologic investigation.Characteristic. Indications and clinical significance.
4. Cytologic investigation.Characteristic. Indications and clinical significance.

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1. Lecture materials.
2. Larry J. Peterson „Contemporary Oral and Maxillofacial Surgery”, fourth edition, 2003, USA.
3. Stanley F. Malamed „ Handbook of local anesthesia”, fourth edition, 1997, USA.
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Topic Nr. 7( II year, III quarter )

Theme: Paraclinical explorations used for the detection of OMF diseases.

Work place: Clinical locations of the department

Purpose: During the practical work students learn the indications and methods of paraclinical investigations used in dentistry.Practical: attend and participate to patient’s receiving.

Work plan: 1. Discussion on the topic – 30 min.

2. Demonstration of the thematic patient – 30 min.

3. Work on the simulator – 35 min.

4. Generalization – 10 min.

Control questions:

1. Biopsy. Definition. Methods. Characteristic. Indications and clinical significance.
2. Allergy examination. Characteristic. Indications and clinical significance.
3. Somatoscopy
4. Thermography
5. Echography

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1. Lecture materials.
2. Larry J. Peterson „Contemporary Oral and Maxillofacial Surgery”, fourth edition, 2003, USA.
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Topic Nr. 8 (II year, III quarter )

Theme: Paraclinical radiological explorations used for the detection of OMF diseases.

Work place: Clinical locations of the department

Purpose: During the practical work students learn the indications and radiological methods of paraclinical investigations used in dentistry. Practical: attend and participate to patient’s receiving.

Work plan: 1. Discussion on the topic – 30 min.

2. Demonstration of the thematic patient – 30 min.

3. Work on the simulator – 35 min.

4. Generalization – 10 min.

Control questions:

1. Radiological examination. Radiographic imaging.
2. Endooral radiographs. Characteristic.

* Periapical radiography
* Bitewing radiographs
* Occlusal radiography

1. Exooral radiographs. Types. Characteristic.

* Orthopantomography. Characteristic. Clinical significance.
* Computed tomography (CT). Characteristic. Clinical significance.

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1. Lecture materials.
2. Larry J. Peterson „Contemporary Oral and Maxillofacial Surgery”, fourth edition, 2003, USA.
3. Stanley F. Malamed „ Handbook of local anesthesia”, fourth edition, 1997, USA.
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11. Т. Г. Робустова “Хирургическая стоматотогия”. Москва 1996 стр. 35-141.

Topic Nr. 9 (II year, III quarter )

Theme: Paraclinical radiological and radioisotope explorations used for the detection of OMF diseases.

Work place: Clinical locations of the department

Purpose: During the practical work students learn the indications and radiological methods of paraclinical investigations used in dentistry. Practical: attend and participate to patient’s receiving.

Work plan: 1. Discussion on the topic – 30 min.

2. Demonstration of the thematic patient – 30 min.

3. Work on the simulator – 35 min.

4. Generalization – 10 min.

Control questions:

1. Magnetic resonance imaging (MRI). Characteristic. Indications and clinical significance.
2. Radiographies with the use of contrast substance. Characteristic.Indications and clinical significance. (sialography, angiography, scintigraphy, fistulography, arthrography, limphography).
3. Lateral cephalometric radiography. Characteristic. Indications and clinical significance.

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1. Lecture materials.
2. Larry J. Peterson „Contemporary Oral and Maxillofacial Surgery”, fourth edition, 2003, USA.
3. Stanley F. Malamed „ Handbook of local anesthesia”, fourth edition, 1997, USA.
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Topic Nr. 10 ( II year, III quarter )

***Theme:*** ***Introduction to oral prevention (OMF surgery). Primary prevention, secondary prevention and tertiary prevention.***

Work place: Clinical locations of the department

Purpose: During the practical work students learn the types and means of asepsis. Practical: attend and participate to patient’s receiving.

Work plan: 1. Discussion on the topic – 30 min.

2. Demonstration of the thematic patient – 30 min.

3. Work on the simulator – 35 min.

4. Generalization – 10 min.

Control questions:

1. The definition, content and history of the notion of preventive medicine.

2. Stages of oral prevention.

3. Primary prevention. Methods and levels.

4. Secondary prevention. Methods and levels.

5. Tertiary Prevention. Methods and levels.

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1. Lecture materials.
2. Larry J. Peterson „Contemporary Oral and Maxillofacial Surgery”, fourth edition, 2003, USA.
3. Stanley F. Malamed „ Handbook of local anesthesia”, fourth edition, 1997, USA.
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Topic Nr. 11 ( II year, III quarter )

Theme: Asepsis in the cabinet (section) of oro-maxillo-facial surgery. Pre-sterilization and disinfection.

Work place: Clinical locations of the department

Purpose: During the practical work students learn the types and means of asepsis. Practical: attend and participate to patient’s receiving.

Work plan: 1. Discussion on the topic – 30 min.

2. Demonstration of the thematic patient – 30 min.

3. Work on the simulator – 35 min.

4. Generalization – 10 min.

Control questions:

1. Definition, content and history of the concept of ***asepsis***.
2. Methods through which is achieved asepsis.
3. Disinfection, definition. Methods.
4. Groups of disinfectant substances. Characteristics. Group representatives.

Bibliography

1. Lecture materials.
2. Larry J. Peterson „Contemporary Oral and Maxillofacial Surgery”, fourth edition, 2003, USA.
3. Stanley F. Malamed „ Handbook of local anesthesia”, fourth edition, 1997, USA.
4. Fragiskos D. Fragiskos „Oral surgery”, Springer-Verlag Berlin Heidelberg, 2007.
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Topic Nr. 12 ( II year, III quarter )

Theme: Asepsis in the cabinet (section) of oro-maxillo-facial surgery. Pre-sterilization and disinfection.

Work place: Clinical locations of the department

Purpose: During the practical work students learn the types and means of asepsis. Practical: attend and participate to patient’s receiving.

Work plan: 1. Discussion on the topic – 30 min.

2. Demonstration of the thematic patient – 30 min.

3. Work on the simulator – 35 min.

4. Generalization – 10 min.

Control questions:

1. Pre-sterilization. Definition. Stages.
2. Cleaning, disinfection and preparing of medical reusable armamentarium prior to sterilization.
3. Preparing of dental materials armamentarium prior to sterilization.
4. Cleaning, disinfection and preparing of dental hand-pieces prior to sterilization.

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1. Lecture materials.
2. Larry J. Peterson „Contemporary Oral and Maxillofacial Surgery”, fourth edition, 2003, USA.
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Topic Nr. 13 (II year, III quarter )

Theme: Asepsis in the cabinet (section) of oro-maxillo-facial surgery. Sterilization.

Work place: Clinical locations of the department

Purpose: During the practical work students learn the types and means of asepsis. Practical: attend and participate to patient’s receiving.

Work plan: 1. Discussion on the topic – 30 min.

2. Demonstration of the thematic patient – 30 min.

3. Work on the simulator – 35 min.

4. Generalization – 10 min.

Control questions:

1. Sterilization, definition. Methods of sterilization.

2. Sterilization with moist heat. Characteristic, equipment, advantages and disadvantages.

3.Sterilization with dry heat. Characteristic, equipment, advantages and disadvantages.

4. Sterilization using other physical methods (boiling, glassperlenic, gas, infrared, irradiation and other). Characteristic, equipment, advantages and disadvantages.

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1. Lecture materials.

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3. Stanley F. Malamed „ Handbook of local anesthesia”, fourth edition, 1997, USA.

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Topic Nr. 14 (II year, III quarter )

Theme: Asepsis in the cabinet (section) of oro-maxillo-facial surgery. Sterilization.

Work place: Clinical locations of the department

Purpose: During the practical work students learn the types and means of asepsis. Practical: attend and participate to patient’s receiving.

Work plan: 1. Discussion on the topic – 30 min.

2. Demonstration of the thematic patient – 30 min.

3. Work on the simulator – 35 min.

4. Generalization – 10 min.

Control questions:

1. Sterilization using chemical methods. Characteristic, equipment, advantages and disadvantages.
2. Groups of disinfectant solutions. Their mechanism of action.
3. Methods of sterilization control.

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1. Lecture materials.

2. Larry J. Peterson „Contemporary Oral and Maxillofacial Surgery”, fourth edition, 2003, USA.

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Topic Nr. 15( II year, III quarter )

Theme: Antisepsis in the cabinet (section) of oro-maxillo-facial surgery.

Work place: Clinical locations of the department

Purpose: During the practical work students learn the types and means of antisepsis. Practical: attend and participate to patient’s receiving.

Work plan: 1. Discussion on the topic – 30 min.

2. Demonstration of the thematic patient – 30 min.

3. Work on the simulator – 35 min.

4. Generalization – 10 min.

Control questions:

1. Definition, content and history of the concept of ***antisepsis***.
2. The methods through which antisepsis is achieved.
3. Mechanical antisepsis. Characteristic.
4. Physical antisepsis. Characteristic.
5. Chemical antisepsis. Characteristic.
6. Biological antisepsis. Characteristic.
7. Mixed antisepsis. Characteristic.
8. Antiseptic substances, definition. Mechanism of action.

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Topic Nr. 16 (II year, III quarter )

Theme: Preparation of the pacient and doctor for surgical intervention in the cabinet (section) of oro-maxillo-facial surgery.

Work place: Clinical locations of the department

Purpose: During the practical work students learn the peculiarities of pacient’s and doctor’s preparation for the surgery. Practical: attend and participate to patient’s receiving.

Work plan: 1. Discussion on the topic – 30 min.

2. Demonstration of the thematic patient – 30 min.

3. Work on the simulator – 35 min.

4. Generalization – 10 min.

Control questions:

1. Peculiarities of surgical interventions in the oral and maxilla-facial region.
2. The goal of preoperative patient’s preparation.
3. Psychological patient preparation in the cabinet (section) of OMF surgery.
4. Biological preparation of the patientin the cabinet (section) of OMF surgery.
5. Pre-medication (pre-anesthesia) in the cabinet (section) of OMF surgery.
6. Physical preparation of the patient in the cabinet (section) of OMF surgery.
7. Preparation of the surgeon for the intervention in the cabinet (section) of OMF surgery. Necessary equipment.
8. Surgeon’s hands disinfection. Characteristic of the techniques.

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